

АВТОБИОГРАФИЯ

ЛИЧНА ИНФОРМАЦИЯ

Име	ГЕЛЕВ, ДИМИТЪР ПАНАЙОТОВ
Адрес	ул.Крайречна, №46, гр. София., 1415
Телефон	02 9673819
Факс	
E-mail	gelevdp@math.bas.bg

Националност	българска
--------------	-----------

Дата на раждане	14 АПРИЛ, 1968 г.
-----------------	-------------------

ТРУДОВ СТАЖ

- | | |
|---------------|--|
| • 2000 - 2004 | математик |
| • 2004 - 2007 | научен сътрудник |
| • 2007 - | доцент (старши научен сътрудник 2-ра степен) |
-
- | | |
|--|---|
| • Име и адрес на работодателя | Институт по математика и информатика на Българската академия на науките
бл. 8, ул. Акад. Г. Бончев, 1113 София |
| • Вид на дейността или сферата на работа | изследователска дейност в областта на математиката и информатиката |
| • Заемана длъжност | доцент |
| • Основни дейности и отговорности | изследвания в областта на приложната логика |

ОБРАЗОВАНИЕ И ОБУЧЕНИЕ

- | | |
|-------------|-----------|
| • 1995-1999 | докторант |
|-------------|-----------|
-
- | | |
|--|---|
| • Име и вид на обучаващата или образователната организация | Софийски университет "Св. Климент Охридски" |
| • Основни предмети/застъпени професионални умения | математическа логика |
| • Наименование на придобитата квалификация | доктор по математическа логика |
-
- | | |
|-------------|---------|
| • 1995-1999 | студент |
|-------------|---------|
-
- | | |
|--|--|
| • Име и вид на обучаващата или образователната организация | Софийски университет "Св. Климент Охридски" |
| • Основни предмети/застъпени професионални умения | математика, специализация мат. структури, дипломна работа по мат. логика |

- | | |
|--|--------------------------------|
| • Наименование на придобитата квалификация | специалист с висше образование |
|--|--------------------------------|

Лични умения и компетенции

Придобити в жизнения път или в професията, но не непременно удостоверени с официален документ или диплома.

МАЙЧИН ЕЗИК	български
-------------	------------------

ДРУГИ ЕЗИЦИ

- | | |
|----------------------|------------------|
| | АНГЛИЙСКИ |
| • Умения за четене | отлично |
| • Умения за писане | отлично |
| • Умения за разговор | отлично |

ДРУГИ ЕЗИЦИ

- | | |
|----------------------|--------------|
| | РУСКИ |
| • Умения за четене | отлично |
| • Умения за писане | основно |
| • Умения за разговор | основно |

ОРГАНИЗАЦИОННИ УМЕНИЯ И КОМПЕТЕНЦИИ	СЕКРЕТАР НА СЕКЦИЯ В ИМИ/БАН, КООРДИНАТОР ПО МЕЖДУНАРОДНИ ИЗСЛЕДОВАТЕЛСКИ ПРОЕКТИ ОТ БЪЛГАРСКАТА СТРАНА С КИТАЙ И ВЕЛИКОБРИТАНИЯ
-------------------------------------	--

СВИДЕТЕЛСТВО ЗА УПРАВЛЕНИЕ НА МПС	да, категория В
--------------------------------------	-----------------

Участие в програмни и организационни комитети

Октомври 26-30, 2020	<u>ATVA 2020</u>
Юли 8-11, 2020	<u>SETTA 2020</u>
Ноември 9-12, 2020	<u>16th ICDCIT</u> – отложена за 2021 заради пандемията
Октомври 23-25, 2017	<u>SETTA 2017</u>
Октомври 23-27, 2017	<u>ICTAC 2017</u>
Юли 26-27, 2017	<u>SR 2017</u>
Юли 10-14, 2017	<u>MDS 2017</u>
Ноември 9-11, 2016	<u>SETTA 2016</u>
Септември 12-14, 2011	<u>TIME'11</u>
Юни 27-July 2, 2011	<u>CiE'11</u>

Юли 31-August 5, 2009	<u>Logic Colloquium'09</u>
Ноември 20, 2005	<u>SEEFM'05</u>
Октомври 17-21, 2005	<u>ICTAC05</u>
Юни 28-30, 2005	<u>ICFI'05 (formerly FIW)</u>
Ноември 20, 2003	<u>SEEFM'03</u>
Април 15-16, 2002	<u>AVoCS'02</u>

Научни посещения в чужбина и предишни позиции:

[Катедра по математическа логика и приложенията ѝ](#), Факултет по математика и информатика на Софийския университет „Свети Климент Охридски“
студент (1988-94), докторант (1995-2000)
[Institute of Logic Language and Computation](#), University of Amsterdam, Netherlands
гостуващ студент по „Темпус“ (1993-94)
[International Institute for Software Technology](#), United Nations University, Macau SAR, China
fellow (1998, 2000), гостуващ учен (2002, 2007)

[School of Computer Science](#) The University of Birmingham, United Kingdom
научен сътрудник (2001-2004, 2005), гостуващ учен (2010)

[Laboratory of Algorithmic, Complexity and Logic](#) University of Paris XII
гостуващ учен (2007, 2009, 2012)
[School of Computer Science and Communication](#) Royal Institute of Technology, Stockholm
гостуващ учен (2009)
State Key Laboratory of Computer Science [Institute of Software](#), Chinese Academy of Sciences
гостуващ учен (2008, 2010, 2012, 2014, 2015, 2018)

Забележка: термините visiting scholar и invited professor по-горе са използвани на основание нивото на заплащане.

Публикации:

Статии в списания

[Ben Moszkowski](#) and Dimitar P. Guelev. [An Application of Temporal Projection to Interleaving Concurrency](#). *Formal Aspects of Computing*, volume 29, issue 4, pp 705-750, 2017.

Dimitar P. Guelev. [Refining Strategic Ability in ATL](#). *Information and Computation. Special issue on selected papers from the 2nd Intl. Workshop on Strategic Reasoning (SR 2014)*, volume 254, pp. 316-328, 2017.

[Ben Moszkowski](#), Dimitar P. Guelev and [Martin Leucker](#). **Guest Editor's Preface to Special Issue on Interval Temporal Logics**. *Annals of Mathematics and Artificial Intelligence*, volume 71, issue 1-3, pp. 1-9, 2014.

Dimitar P. Guelev, [Catalin Dima](#) and [Constantin Enea](#). [An Alternating-time Temporal Logic with Knowledge, Perfect Recall and Past: Axiomatisation and Model Checking](#). *Journal of Applied Non-classical Logic*, volume 21, issue 1, pp. 93-131, 2011.

Dimitar P. Guelev. [A Syntactical Proof of the Canonical Reactivity Form for Past Linear Temporal Logic](#). *Journal of Logic and Computation*, volume 18, issue 4, pp. 615-623, 2008.

Nan Zhang, [Mark D. Ryan](#) and Dimitar P. Guelev. **Synthesising Verified Access Control Systems through Model Checking**. *Journal of Computer Security*, volume 16, issue 1, pp. 1-61, 2008.

Dimitar P. Guelev. [Probabilistic Interval Temporal Logic and Duration Calculus with Infinite Intervals: Complete Proof Systems](#). *Logical Methods in Computer Science*, volume 3, issue 3, 44 p., 2007.

Dimitar P. Guelev, [Mark D. Ryan](#) and [Pierre-Yves Schobbens](#). [Model-checking the Preservation of Temporal Properties upon Feature Integration](#). *Software Tools for Technology Transfer*,

volume 9, issue 1, pp 53-62, 2007. A revised version of the paper presented at the *CONCUR* workshop *Automated Verification of Critical Systems* (AVoCS'04), London, September 2004.

Dimitar P. Guelev and [Dang Van Hung](#). [On the Completeness and Decidability of Duration Calculus with Iteration](#). *Theoretical Computer Science*, volume 337, pp. 278-304, 2005.

Dimitar P. Guelev and [Dang Van Hung](#). [A Relatively Complete Axiomatisation of Projection onto State in the Duration Calculus](#). *Journal of Applied Non-classical Logic*, volume 14, issue 1-2, pp. 149-180, 2004.

Dimitar P. Guelev. [Logical Interpolation and Projection onto State in the Duration Calculus](#). *Journal of Applied Non-classical Logic*, volume 14, issue 1-2, 2004, pp. 181-208. An extended abstract was presented at the *Workshop on Interval Temporal Logics and Duration Calculi* of ESSLLI 2003.

Dimitar P. Guelev. [A Complete Proof System for First Order Interval Temporal Logic with Projection](#). *Journal of Logic and Computation*, volume 14, issue 2, pp. 215-249, 2004.

Dimitar P. Guelev. [Interval-related Interpolation in Interval Temporal Logics](#). *Logic Journal of the IGPL*, volume 9 issue 5, 2001, pp. 677-685. Presented at ICTL 2000.

Dimitar P. Guelev. [A Propositional Dynamic Logic with Qualitative Probabilities](#). *Journal of Philosophical Logic*, volume 28, number 6, 1999, pp. 575-605.

Статии в трудовете на симпозиуми

Dimitar P. Guelev, [Shuling Wang](#) and [Naijun Zhan](#). [Compositional Hoare-Style Reasoning About Hybrid CSP in the Duration Calculus](#). *Proceedings of SETTA 2017*, LNCS 10606, Springer-Verlag, 2015, pp. 110-127.

[Ben Moszkowski](#) and Dimitar P. Guelev. [An Application of Temporal Projection to Interleaving Concurrency](#). *Proceedings of SETTA 2015*, LNCS 9409, Springer-Verlag, 2015, pp. 153-167.

Dimitar P. Guelev, [Shuling Wang](#), [Naijun Zhan](#) and [Chaochen Zhou](#). [Super-Dense Computation in Verification of Hybrid CSP Processes](#). *Proceedings of FACS 2013*, LNCS 8348, Springer-Verlag, 2014, pp. 13-22.

Dimitar P. Guelev. [Refining and Delegating Strategic Ability in ATL](#). Presented and published in the Proceedings of the 2nd Intl. Workshop on Strategic Reasoning (SR 2014), *EPTCS*, volume 146, pp 57-64, 2014.

Dimitar P. Guelev. [Reducing Validity in Epistemic ATL to Validity in Epistemic CTL](#). Presented and published in the Proceedings of the 1st Intl. Workshop on Strategic Reasoning (SR 2013), *EPTCS*, volume 112, pp 81-90, 2013.

Dimitar P. Guelev and [Catalin Dima](#). [Epistemic ATL with Perfect Recall, Past and Strategy Contexts](#). *Proceedings of CLIMA XIII*, LNCS 7486, Springer-Verlag, 2012, pp. 77-93.

[Wang Shuling](#), [Zhan Naijun](#) and Dimitar P. Guelev. [An Assume/Guarantee Based Compositional Calculus for Hybrid CSP](#). *Proceedings of TAMC 2012*, LNCS 7287, Springer-Verlag, 2012, pp. 72-83.

Dimitar P. Guelev and [Mads Dam](#). [An Epistemic Predicate CTL* for Finite Control \$\pi\$ -Processes](#). Presented and published in the Proceedings of the 7th Workshop on Methods for Modalities (M4M 2011) and the 4th Workshop on Logical Aspects of Multi-Agent Systems (LAMAS 2011), Osuna, Spain, November 2011, *Electronic Notes in Theoretical Computer Science*, volume 278, pp. 229-243, 2011.

[Catalin Dima](#), [Constantin Enea](#), Dimitar Guelev and Ferucio Tiplea. **Positive and negative results on the model-checking problem for ATL with imperfect information**. Presented at the 2nd Workshop on Games for Design, Verification and Synthesis, Paris (France), September 4, 2010.

[Catalin Dima](#), [Constantin Enea](#) and Dimitar Guelev. [Model-Checking an Alternating-time Temporal Logic with Knowledge, Imperfect Information, Perfect Recall and Communicating Coalitions](#). Presented and published in the Proceedings of the First Symposium on Games, Automata, Logic, and Formal Verification (GandALF 2010), *Electronic Proceedings in Theoretical Computer Science (EPTCS)* volume 25, pp 103-117, 2010.

Dimitar P. Guelev and [Catalin Dima](#). [Model-checking strategic ability and knowledge of the past of communicating coalitions](#). Presented at the AAMAS workshop *Declarative Agent Languages and Technologies (DALT)*, 2008, LNAI 5397, Springer, 2008, pp. 75-90.

Dimitar P. Guelev and [Dang Van Hung](#). [Reasoning about QoS contracts in the Probabilistic Duration Calculus](#). Presented at the ETAPS workshop *Formal Foundations of Embedded Software and Component-Based Software Architectures (FESCA)*, 2008. *Electronic Notes in Theoretical Computer Science*, volume 238, issue 6, pp. 41-62, 2010.

Nan Zhang, [Mark Ryan](#) and Dimitar P. Guelev, **Evaluating Access Control Policies through Model-checking**. Presented and published in the *Proceedings of the 8th Information Security Conference (ISC'05)*, Singapore, September 2005, LNCS 3650, Springer, 2005, pp. 446-460.

Dimitar P. Guelev, [Mark D. Ryan](#) and [Pierre-Yves Schobbens](#), **Synthesising Features by Games**. Presented at the fifth workshop *Automated Verification of Critical Systems (AVoCS'05)*, Warwick University, UK, September 2005. *Electronic Notes in Theoretical Computer Science*, volume 145, pp. 79-93, 2006.

Nan Zhang, [Mark Ryan](#) and Dimitar P. Guelev, **Synthesising Verified Access Control Systems in XACML**. *Proceedings of the 2nd ACM Workshop on Formal Methods in Security Engineering (FMSE 2004)*, Washington, DC, USA, October 29, 2004, ACM, pp. 56-65.

Dimitar P. Guelev, [Mark D. Ryan](#) and [Pierre-Yves Schobbens](#), **Model-checking the Preservation of Temporal Properties upon Feature Integration**. Presented at the *CONCUR workshop Automated Verification of Critical Systems (AVoCS'04)*, London, September 2004. *Electronic Notes in Theoretical Computer Science*, volume 128, issue 6, pp. 311-324, 2005. A revised version in *Software Tools for Technology Transfer*, volume 9, issue 1, pp 53-62, 2007.

Dimitar P. Guelev, **Sharpening the Incompleteness of the Duration Calculus**. *Proceedings of the AMAST Workshop on Real-time Systems (ARTS)*, Stirling, UK, June 2004. *Electronic Notes in Theoretical Computer Science*, volume 139, issue 1, pp. 91-104, 2005.

Dimitar P. Guelev, [Mark D. Ryan](#) and [Pierre-Yves Schobbens](#), **Model-checking Access Control Policies**. Presented at the *LICS workshop Foundations of Computer Security (FCS'04)*, Turku, Finland, July 2004. Presented and published in the *Proceedings of the 7th Information Security Conference (ISC'04)*, Palo Alto, California, September 2004, LNCS 3225, Springer, 2004, pp. 219-230.

Dimitar P. Guelev, **Logical Interpolation and Projection onto State in the Duration Calculus (Extended Abstract)**. *Workshop on Interval Temporal Logics and Duration Calculi*, ESSLLI, Vienna, 2003. The full paper appeared in the *Journal of Applied Non-classical Logic*.

Dimitar P. Guelev, [Mark D. Ryan](#) and [Pierre-Yves Schobbens](#), **Feature Integration as Substitution**. Logrippo, L. and D. Amyot (eds.), *Feature Interactions in Telecommunications and Software Systems VII*, IOS Press, Amsterdam, 2003, pp. 275-294.

Dimitar P. Guelev and [Dang Van Hung](#), **Projection onto State in Duration Calculus: Relative Completeness (Extended Abstract)**. *Third Workshop on Automatic Verification of Critical Systems (AVoCS'03)*, Southampton, UK, April 2-3, 2003.

Dimitar P. Guelev and [Dang Van Hung](#), **Prefix and Projection onto State in Duration Calculus**. *Proceedings of the ETAPS workshop Theory and Practice of Timed Systems (TPTS'02)*, 2002. *Electronic Notes in Theoretical Computer Science* volume 65, Issue 6, Elsevier Science.

Dimitar P. Guelev and [Mark D. Ryan](#), **Logical Analysis of Feature Integration**. *Second Workshop on Automatic Verification of Critical Systems (AVoCS'02)*, April 15-16, 2002, Birmingham, United Kingdom.

[Dang Van Hung](#) and Dimitar P. Guelev, **Real-Time Refinement with State Projections**. Presented at the *UNU/IIST 10th Anniversary Colloquium*, March 18-22, 2002, Lisbon, Portugal.

Dimitar P. Guelev, **A Complete Fragment of the Higher-order Duration μ -Calculus**. *Proceedings of FST TCS 2000*, LNCS 1974, Springer, 2000, pp. 264-276.

Dimitar P. Guelev, **Interval-related Interpolation in Interval Temporal Logics**. *Proceedings of ICTL 2000*. A revised version appeared in the *Logic Journal of the IGPL*.

Dimitar P. Guelev, **Probabilistic Neighbourhood Logic**. *Proceedings of FTRTFT 2000*, LNCS 1926, Springer, 2000, pp. 264-275.

[Zhou Chaochen](#), Dimitar P. Guelev, and [Zhan Naijun](#), **A Higher-Order Duration Calculus**. Jim Davies, Bill Roscoe and Jim Woodcock (eds.) *Millenial Perspectives in Computer Science. Proceedings of the 1999 Oxford-Microsoft Symposium in Honour of Professor Sir Anthony Hoare*, Palgrave, 2000, pp. 407-416.

[Dang Van Hung](#) and Dimitar P. Guelev, **Completeness and Decidability of a Fragment of Duration Calculus with Iteration**. *Proceedings of ASIAN'99*, LNCS 1742, Springer-Verlag, 1999, pp. 139-150.

Препринти

UNU/IIST reports listed below are **no longer** available from <http://www.iist.unu.edu> .

Dimitar P. Guelev and [Dang Van Hung](#), **Reasoning about QoS contracts in the Probabilistic Duration Calculus**. UNU/IIST Technical Report 384, September 2008. Presented at the ETAPS workshop *Formal Foundations of Embedded Software and Component-Based Software Architectures (FESCA)*, 2008.

Dimitar P. Guelev and [Dang Van Hung](#). **Projection onto State in Duration Calculus: Relative Completeness**. UNU/IIST Technical Report 269, November 2002. An extended abstract was presented at the *Third Workshop on Automatic Verification of Critical Systems (AVoCS'03)*.

Dimitar P. Guelev and [Dang Van Hung](#). **Prefix and Projection onto State in Duration Calculus**. UNU/IIST Technical Report 236, April 2001. Appeared in the *Proceedings of the ETAPS workshop Theory and Practice of Timed Systems (TPTS'02)*.

Dimitar P. Guelev. **Interpolation and Related Results on the P-fragment of Duration Calculus with Iteration**. UNU/IIST Technical Report 203, June 2000.

Dimitar P. Guelev. **Probabilistic Neighbourhood Logic**. UNU/IIST Technical Report 196, April 2000. A short version appeared in the *Proceedings of FTRTFT 2000*.

Dimitar P. Guelev. **A Complete Proof System for First Order Interval Temporal Logic with Projection**. UNU/IIST Technical Report 202, June 2000. A revised version appeared in the *Journal of Logic and Computation*.

Dimitar P. Guelev. **A Complete Fragment of the Higher-order Duration μ -Calculus**. UNU/IIST Technical Report 195, April 2000. A short version appeared in the *Proceedings of FST TCS 2000*, LNCS 1974, Springer, 2000.

Dimitar P. Guelev. **Probabilistic Interval Temporal Logic**, UNU/IIST Technical Report 144, August 1998, Draft. Superseded by Report 196 of UNU/IIST.

[Zhou Chaochen](#), Dimitar P. Guelev, and [Zhan Naijun](#). **A Higher-Order Duration Calculus**. UNU/IIST Technical Report 167, July 1999. Published in the *Proceedings of the 1999 Oxford-Microsoft Symposium in Honour of Professor Sir Anthony Hoare*, Palgrave, 2000.

[Dang Van Hung](#) and Dimitar P. Guelev. **Completeness and Decidability of a Fragment of Duration Calculus with Iteration**. UNU/IIST Technical Report 163, April 1999. Appeared in the *Proceedings of ASIAN'99*.

Dimitar P. Guelev. **Quantification over State in Duration Calculus is Essentially First Order**. Technical Note 52, DeTfORS, UNU/IIST, P.O.Box 3058, Macau, July 1998.

Dimitar P. Guelev. **An Undecidable Fragment of Propositional Interval Temporal Logic**, Technical Note 50, DeTfORS, UNU/IIST, P.O.Box 3058, Macau, May 1998.

Dimitar P. Guelev. **Iteration of Simple Formulas in Duration Calculus**. UNU/IIST Technical Report 141, June 1998. Appeared in the *Proceedings of ASIAN'99*, 1999, as part of joint paper with [Dang Van Hung](#).

Dimitar P. Guelev. **A Calculus of Durations on Abstract Domains: Completeness and Extensions**. UNU/IIST Technical Report 139, May 1998.

Дипломна работа и дисертация
Probabilistic and Temporal Modal Logics, In Bulgarian. Ph.D. thesis, Faculty of Mathematics and Informatics, Sofia University, February, 2000.

A Strong Completeness Theorem for the Probabilistic Logic of Segerberg. M. Sc. thesis, Sofia University, 1994. In Bulgarian. An extended version appeared in the *Journal of Philosophical Logic*.